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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/066,766	10/066,766 02/06/2002		Nahoko Takano	Q68400	5813	
23373	7590	08/26/2005		EXAMINER		
SUGHRUE	•		GANTT, ALAN T			
2100 PENNS SUITE 800	SYLVAN	IA AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHING	ron, dc	20037		2684	-	
				DATE MAIL ED: 08/26/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Apr	olication No.	Applicant(s)					
Office Action Summary			066,766	TAKANO ET AL.					
			ıminer	Art Unit	Γ				
			n T. Gantt	2684					
	The MAILING DATE of this communic	•		1 ' 1	Idress				
Period fo	r Reply			·					
THE I - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC usions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply specified above is less than thirty (30) period for reply is specified above, the maximum stating to reply within the set or extended period for reply we pely received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). Inication. d days, a reply within utory period will appliill, by statute, cause	In no event, however, may a the statutory minimum of thin by and will expire SIX (6) MOI the application to become A	reply be timely filed  rty (30) days will be considered timel  NTHS from the mailing date of this or  BANDONED (35 U.S.C. § 133)	ly. ommunication.				
Status									
1) Responsive to communication(s) filed on 06 January 2005.									
		o)⊠ This actio	<del></del>						
3)□	Since this application is in condition for	or allowance e	xcept for formal mat	ters, prosecution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) 1-36 is/are pending in the ap	plication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)🛛	Claim(s) is/are allowed.  Claim(s) <u>1-36</u> is/are rejected.								
6)⊠									
7)	Claim(s) is/are objected to.								
8)[	Claim(s) are subject to restricti	on and/or elec	ction requirement.						
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) 🗌	The oath or declaration is objected to	by the Examin	er. Note the attache	d Office Action or form PT	ГО-152.				
Priority u	nder 35 U.S.C. § 119	•							
a)[	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority d  2. Certified copies of the priority d  3. Copies of the certified copies of	ocuments hav ocuments hav f the priority do	e been received. e been received in A ocuments have been	Application No	Stage				
* 5	application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
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Attachment	` '		_						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	0.049)		Summary (PTO-413) s)/Mail Date.					
	e of Draftsperson's Patent Drawing Review (PTF) nation Disclosure Statement(s) (PTO-1449 or P			nformal Patent Application (PTC	)-152)				
	No(s)/Mail Date	•	6) 🔲 Other:	<u>_</u> .					

#### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments filed 1/6/05 have been fully considered. Applicant primarily argues that the Suzuki reference used to reject independent claims 28, 31, and 34 in that it control signals are between base stations and not between a base station and a mobile station. Also, applicant states that the base station of Suzuki is acting as a repeater also and thus, transmits at least two signals.

With regards to the Suzuki, a new reference replaces Suzuki to meet applicant's claims.

Further, subject matter previously indicated as allowable is being withdrawn by the examiner because the style of the independent claims is narrative and does not meet current claim language practice. Without the proper claim language these claims may be interpreted the same as independent claims

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 5, 8, 10, 12, 14, 19, and 23 are generally narrative and indefinite, failing to conform to current U.S. practice. Applicant is required to rewrite claims that meet current US practice. Typically, a method or system claim has a preamble that separates from the limitation through the use of "comprising", "steps comprising", etc. As currently written, the claims would appear to have a very extended preamble and a brief limitation. Quite often the preamble will

carries little if any patentable weight. An examination on merits for these claims or there dependent claims will not be performed in the current Office Action, but will be performed when it is known what applicant is distinctly claiming.

### Allowable Subject Matter

The indicated allowability of claims 1-27 is withdrawn in view of the arguments presented above.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 28, 29, 31, 32, 34, 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al.

Regarding claim 28, Tanaka discloses a multiple beam antenna system of a wireless base station system that, based on whether an uplink signal is present or not, a controller performs control so as to carry out downlink beam forming. Tanaka is a CDMA system and thus, utilizes soft handoff. Tanaka meets the limitations:

a base station that is transmitting only a control signal transmits the control signal to a mobile station only if the control signal to the mobile station only if the signal quality from that mobile station is higher than a target quality. (col. 10, lines 55-63 and col. 12, line 56 to col. 13, line 9)

Regarding claim 29, Tanaka meets the limitation - The communication method claimed in claim 28, wherein the mobile station transmits information relating to its own velocity and the base station halts transmission of the control signal if said velocity exceeds a prescribed value. (col. 12, lines 34-54)

Regarding claim 31, Tanaka discloses a multiple beam antenna system of a wireless base station system that, based on whether an uplink signal is present or not, a controller performs control so as to carry out downlink beam forming. Tanaka is a CDMA system and thus, utilizes soft handoff. Tanaka meets the limitations:

a base station that is transmitting only a control signal transmits the control signal to a mobile station only if the control signal to the mobile station only if the signal quality from that mobile station is higher than a target quality. (col. 10, lines 55-63 and col. 12, line 56 to col. 13, line 9)

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Regarding claim 32, Tanaka meets the limitation - The communication system claimed in claim 31, wherein the mobile station transmits information relating to its own velocity and the base station halts transmission of the control signal if said velocity exceeds a prescribed value. (col. 12, lines 34-54)

Regarding claim 34, Tanaka discloses a multiple beam antenna system of a wireless base station system that, based on whether an uplink signal is present or not, a controller performs control so as to carry out downlink beam forming. Tanaka is a CDMA system and thus, utilizes soft handoff. Tanaka meets the limitations:

a base station that is transmitting only a control signal transmits the control signal to a mobile station only if the control signal to the mobile station only if the signal quality from that mobile station is higher than a target quality. (col. 10, lines 55-63 and col. 12, line 56 to col. 13, line 9)

Regarding claim 35, Tanaka meets the limitation - The base station claimed in claim 34, wherein it transmits information to its own velocity and the base station halts transmission of the control signal if said velocity exceeds a prescribed value. (col. 12, lines 34-54)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30, 33, and 36 rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al., in view of Wilborn et al.

Regarding claim 30, Tanaka discloses a base station that is transmitting only a control signal and that transmits the control signal to a mobile station only if the signal quality from that mobile station is higher than a target quality as stated above for claim 28, as well as, that the base station halts transmission of the control signal if the mobile station velocity exceeds a prescribed value as stated above for claim 29. Tanaka does not utilize the base station for estimating the velocity of the mobile station on the basis of the fading of a signal from the mobile signal.

Wilborn discloses an apparatus and method for velocity estimation based on fast fading.

Wilborn meets the limitation:

The communication method claimed in claim 28, wherein the base station estimates the velocity of the mobile station on the basis of the fading of a signal from the mobile station, and halts transmission of the control signal if said velocity exceeds a prescribed value. (paragraph 0030)

Tanaka and Wilborn are combinable because they share a common endeavor, namely radio telecommunications. At the time of the applicant's invention it would have been obvious

to modify Tanaka to include means for estimating mobile station speed on the basis of the fading of the signal from the mobile station to allow for operating the system if the mobile station did not contain velocity sensors.

Regarding claim 33, Tanaka discloses a base station that is transmitting only a control signal and that transmits the control signal to a mobile station only if the signal quality from that mobile station is higher than a target quality as stated above for claim 31, as well as, that the base station halts transmission of the control signal if the mobile station velocity exceeds a prescribed value as stated above for claim 32. Tanaka does not utilize the base station for estimating the velocity of the mobile station on the basis of the fading of a signal from the mobile signal.

Wilborn discloses an apparatus and method for velocity estimation based on fast fading.

Wilborn meets the limitation:

The communication system claimed in claim 31, wherein the base station estimates the velocity of the mobile station on the basis of the fading of a signal from the mobile station, and halts transmission of the control signal if said velocity exceeds a prescribed value. (paragraph 0030)

Tanaka and Wilborn are combinable because they share a common endeavor, namely radio telecommunications. At the time of the applicant's invention it would have been obvious to modify Tanaka to include means for estimating mobile station speed on the basis of the

fading of the signal from the mobile station to allow for operating the system if the mobile station did not contain velocity sensors.

Regarding claim 36, Tanaka discloses a base station that is transmitting only a control signal and that transmits the control signal to a mobile station only if the signal quality from that mobile station is higher than a target quality as stated above for claim 34, as well as, that the base station halts transmission of the control signal if the mobile station velocity exceeds a prescribed value as stated above for claim 35. Tanaka does not utilize the base station for estimating the velocity of the mobile station on the basis of the fading of a signal from the mobile signal.

Wilborn discloses an apparatus and method for velocity estimation based on fast fading.

Wilborn meets the limitation:

The base station claimed in claim 34, wherein it estimates the velocity of the mobile station on the basis of the fading of a signal from the mobile station, and halts transmission of the control signal if said velocity exceeds a prescribed value. (paragraph 0030)

Tanaka and Wilborn are combinable because they share a common endeavor, namely radio telecommunications. At the time of the applicant's invention it would have been obvious to modify Tanaka to include means for estimating mobile station speed on the basis of the fading of the signal from the mobile station to allow for operating the system if the mobile station did not contain velocity sensors.

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Allowable Subject Matter

Claims 1-27 are allowed.

Regarding claims 1, 3, 5, 10, 12, 14, 119, 21, and 23, A base station control method that allows the mobile station to select the serving base station and decide whether to utilize a

transmission power control signal sent by the base and also make the determination based on its

own velocity or estimates of its velocity that also allows another base station to decide whether it

will send control signals to the mobile based on the sent velocity information was neither found,

suggested, nor made evident by the prior art.

Conclusion

Any inquiry concerning this communication from the examiner should be addressed to Alan Gantt at telephone number (571) 272-7878. The examiner can normally be reached between 9:30 AM and 6 PM within the Eastern Time Zone. The group FAX number is (571)

Any inquiry of a general nature or relating to this application should be directed to Supervisory Patent Examiner Nay Maung at telephone number (571) 272-7878.

Alan T. Gantt

273-8300.

August 19, 2005

Blan T. Dantt

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